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Smirous, Karel, Stourac, Ladislav, and Bednar, Jan.
THE SEMICONDUCTING COMPOUND SiTe. (1962) 2p.
(1 fig. omitted) 5 refs.
Order from SLA \$1.10

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I. Smirous, K.
II. Stourac, L.
III. Bednar, J.

Trans. of [Chekhoslovatskii Fizicheski Zhurnal] 1957,
v. 7 [no. 1] p. 120-122.

DESCRIPTORS: *Silicon compounds, *Tellurium com-
pounds, Electrical properties, *Semiconductors,
Tellurides.

Tellurium and silicon were weighed with great ac-
curacy into a quartz ampoule in the stoichiometric
proportions of SiTe; the ampoule was sealed after
evacuation at a pressure of 10^{-3} mm Hg. The two ele-
ments were kept in the ampoule for a duration of four
hours at 1200°C with frequent thorough mixing. The
resulting telluride had a metallic appearance; however
on cracking it showed a brown-red color. In moist air
(Physics--Solid State, TT, v. 8, no. 1) (over)

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Power Balance During Layer Formation in an Electrical Discharge, by Ledek Pekarek, Oto Stirand.

^{Russian}
~~Green~~, per; Chekhosl Fiz Zhur, Vol VII, No 4, 1957,
pp 364-374.

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Horak, J., Machovec, M., and Kosek, P.
ZINC TELLURIDE: A SEMICONDUCTING COM-
POUND. [1960] [17]p. (2 figs. omitted) 18 refs.
Order from OTS or SLA \$1.60 60-15997

Trans. of [Chekhoslovatskii Fizicheskii Zhurnal] 1957,
v. 7, no. 4, p. 468-475.

DESCRIPTORS: *Zinc compounds, *Tellurides, *Semi-
conductors, Temperature, Conductivity, Intermetallic
compounds, Crystals, Lattices.

Zinc telluride was synthesized in quartz from very pure
samples of zinc and tellurium. The Debye-Scherrer
method was used to revise the tabulated values of the
lattice constant for which the value of 6.085 Å was
found by extrapolation of the back reflection method.
The conductivity of zinc telluride as a function of the
temperature was measured on evaporated thin films.
The structure of the films does not differ from the
(Physics--Solid State, TT, v. 8, no. 5) (over)

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